December 2017 CSO SHEET 1

|  |         | Daily Com INCHES | CSO INFLUENT<br>FLOW | CSO<br>PUMPBACK TO<br>WWTF | CSO BYPASS<br>TO RIVER | CSO TREATED<br>TO RIVER | CSO EVENT<br>DURATION | South Street<br>CSO #9 Flow | CSO #9 FLOW<br>DURATION | CSO #9 % SEC<br>TREATED  |
|--|---------|------------------|----------------------|----------------------------|------------------------|-------------------------|-----------------------|-----------------------------|-------------------------|--|
|  |         |                  | MGD                  | MGD                        | MGD                    | MGD                     | Hours                 | MGD                         | Hours                   | %  |
|  | 1 Fri   | 0.00             | 0.000                | 0.000                      | 0.000                  |                         | 0.0                   | 0.000                       | 0.00                    |  |
|  | 2 Sat   | 0.00             | 0.000                | 0.000                      | 0.000                  |                         | 0.0                   | 0.000                       |                         |  |
|  | 3 Sun   | 0.00             | 0.000                | 0.000                      | 0.000                  |                         | 0.0                   | 0.000                       |                         |  |
|  | 4 Mon   | 0.00             | 0.000                | 0.000                      | 0.000                  |                         | 0.0                   | 0.000                       | 0.00                    | ··········   |
|  | 5 Tue   | 0.50             | 0.00.0               | 0.002                      | 0.000                  |                         | 0.0                   | 0.720                       | 1.00                    |  |
|  | 6 Wed   | 0.00             | 0.000                | 0.314                      | 0.000                  |                         | 0.0                   | 0.000                       |                         |  |
|  | 7 Thu   | 0.00             | 0.000                | 0.313                      | 0.000                  |                         | 0.0                   | 0.000                       |                         |  |
|  | 8 Fri   | 0.00             | 0.000                | 0.000                      | 0.000                  |                         | 0.0                   | 0.000                       |                         | ·  |
|  | 9 Sat   | 0.33             | 0.000                | 0.000                      | 0.000                  |                         | 0.0                   | 0.000                       |                         |  |
|  | 10 Sun  | 0.00             | 0.000                | 0.000                      | 0.000                  |                         | 0.0                   | 0.000                       | 0.00                    |  |
|  | 11 Mon  | 0.00             | 0.000                | 0.003                      | 0.000                  |                         | 0.0                   | 0.000                       | 0.00                    |  |
|  | 12 Tue  | 0.39             | 0.000                | 0.000                      | 0.000                  |                         | 0.0                   | 0.000                       | 0.00                    |  |
|  | 13 Wed  | 0.00             | 0.000                | 0.000                      | 0.000                  |                         | 0.0                   | 0.000                       | 0.00                    |  |
|  | 14 Thu  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 15 Fri  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
| Dec  | 16 Sat  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 17 Sun  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    | The state of the s |
|  | 18 Mon  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 19 Tue  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 20 Wed  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 21 Thu  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 22 Fri  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 23 Sat  | 0.59             | 0.718                | 0.223                      | 0.000                  | 0.00                    | 0.0                   | 0.810                       | 1.80                    |  |
|  | 24 Sun  | 0.18             | 0.000                | 0.334                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    | · · · · · · · · · · · · · · · · · · ·  |
|  | 25 Mon  | 0.00             | 0.000                | 0.027                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 26 Tue  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 27 Wed  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 28 Thu  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 29 Fri  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
|  | 30 Sat  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |  |
| 501 0 11 7 15 16 17<br>501 2 11 7 7 9 5 10 | 31 Sun  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    | 79.48  |
| ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )    | MINIMUM | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    | 79.48  |
| N  | MAXIMUM | 0.59             | 0.718                | 0.334                      | 0.000                  | 0.00                    | 0.0                   | 0.810                       | 1.80                    | 79.48  |
| Δ  | WERAGE  | 0.06             | 0.023                | 0.039                      | 0.000                  | 0.00                    | 0.0                   | 0.049                       | 0.09                    | 79.48  |
|  | SUM     | 1.99             | 0.718                | 1.216                      | 0.000                  | 0.00                    | 0.0                   | 1.530                       | 2.80                    | 79.48  |
| G  | EOMEAN  | 0.85             | 0.989                | 0.515                      | 1.000                  | 1.00                    | 1.0                   | 0.983                       | 1.02                    | 79.48  |

## Holyoke MA - Berkshire Street CSO Treatment Facility, CSO #09 Sample Results of Treated Flow to River (Flow "A")

Dec-17

| Date of H       | No Activ                          | One Event /month One every 4 hours (mg/l) | One Event /month One every 4 hours (mg/l) | One                | Grab/M    |          |  |  |  |
|-----------------|-----------------------------------|---|---|--------------------|-----------|----------|--|--|--|
| Date of H       | lourly samples<br>colonies/100ml) | One every 4 hours (mg/l)                  | One every 4 hours (mg/l)                  |                    |           |          |  |  |  |
|                 | olonies/100ml)                    | (mg/l)                                    | (mg/l)                                    |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | ecember                                   |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | ecember                                   |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | ecember                                   |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | cember                                    |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | cember                                    |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | cember                                    |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | cember                                    |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | cember                                    |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | ecember                                   |                    |           |          |  |  |  |
|                 | No Activ                          | vations for De                            | ecember                                   |                    |           |          |  |  |  |
|                 |                                   |   | No Activations for December               |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 |                                   |   |   |                    |           |          |  |  |  |
|                 |                                   |   |   | min                |           |          |  |  |  |
|                 |                                   |   |   | max                |           |          |  |  |  |
| Monthly Average |                                   |   | 50 Toxicity Compos                        |                    |           |          |  |  |  |
| Geometric Mean  |                                   | LC  | site                                      |                    |           |          |  |  |  |
| (E-Coli)        |                                   |   |   | L,,_,,,            |           | ,_,,_,,  |  |  |  |
| Samples/        | TSS                               | Ammonia                                   | Nitrate                                   | Nitrite<br>NO2 (as | TKN       | LC 50    |  |  |  |
| 6 Months Sol    | lids (TSS)                        | Nitrogen (as N)                           | NO3 (as N)                                | N)                 | (as N)    | Toxicity |  |  |  |
| Date of         | Composite                         | Composite                                 |   | Composite          | Composite |          |  |  |  |
| Sample-         | (mg/l)                            | (mg/l)                                    | (mg/l)                                    | (mg/l)             | (mg/l)    | Joinposi |  |  |  |
| CSO 9           | (1119-1)                          | (1119/1)                                  | (mg/i)                                    | (mg/i)             | (1119/1)  |          |  |  |  |